

Name of the Academic Department / Center:	Chemistry
Academic Year:	2024 - 2025
Session:	Winter/Even Semester (January - May 2025)

Sl. No.	Course No	Course Title	L	T	P	C	Type of Course (Compulsory/ Dept. Elective/ Open Elective)	Offered to Programme	Semester (1 to 8)	Name(s) of Course Instructor(s)	IITG Email ID of course instructors	Class Slot	Exam Slot	Room No.
B. Tech. [Preparatory]														
1	CH 002	Preparatory Chemistry II	3	2	0	10	Preparatory (Organic/Inorganic)	Pre B. Tech.	2	CVS+ATK	sastricv,atk			
B. Tech. (CST) [Second Year]														
2	CH 222	Applied Organic Chemistry	3	0	0	6	Compulsory	B. Tech.	4	KPB	khabhak	D	D	5006
3	CH 224	Group Theory	3	0	0	6	Compulsory	B. Tech.	4	SD	sumana	C	C	5006
4	CH 211	Industrial Chemistry	3	0	0	6	Compulsory	B.Tech	4	SKS+SPB	sbiswas,sksarkar	B	B	5006
5	CH 233	Spectroscopic Techniques in Chemistry	3	0	0	6	Compulsory	B. Tech.	4	GK	gkrishna	A	A	5006
6	CH 223	Chemical Technology Lab - I (Organic)	0	0	6	6	Compulsory, Lab	B. Tech.	4	SCP+ASA	span+achalkumar	AL1, AL2		
7	HS 1XX	HSS Elective - I (Level - I)	3	0	0	6	HSS Elective	B. Tech.	4			G	G	
		Minor										F	F	
B. Tech. (CST) [Third Year]														
8	CH 332	Computational Chemistry	2	0	2	6	Compulsory	B. Tech.	6	KB+DD	ksb, ddhabal	A1,ML4	A1	5006
9	CH 335	Application of Nanomaterials	3	0	0	6	Compulsory	B. Tech.	6	KR+MQ	mq, k.raidongia	B1	B1	5006
10	CH 323	Polymer Chemistry	3	0	0	6	Compulsory	B. Tech.	6	ASA	achalkumar	E1	E	5006
11	CH 334	Chemical Technology Lab - III (Physical)	0	0	6	6	Compulsory, Lab	B. Tech.	6	KB+DD+KR	ksb,ddhabal,k.raidongia	ML2, ML3		
12	CH 419	Consumer Chemistry	0	0	6	6	Open Elective	B. Tech.	6	BKP+PKI	patel,pki	F1	F1	5G2
Minor												G1	G1	
B. Tech. (CST) [Fourth Year]														
13	CH 418	Biological Chemistry of Metal Ions	3	0	0	6	Dept. Elective - III	B. Tech.	8	MR	manabray	A	A	5106
14	CH 428	Drug Design and Development	3	0	0	6	Dept. Elective - IV	B. Tech.	8	BHM	bmandal	D	D	5106
15	CH 438	Application to Statistical Mechanics to Chem	3	0	0	6	Dept. Elective - IV	B. Tech.	8	SP	sandipp	C	C	5106
16	CH 437	Chemical Approaches to Nanoscale Science	3	0	0	6	Dept. Elective - V	B. Tech.	8	AC+UM	arun, umanna	E	B	5106
17	CH 499	Project - II	0	0	12	12	Compulsory	B. Tech.	8					
18	CH 644	Applied Quantum Chemistry	2	0	2	6	Open Elective	B. Tech. + MS	8	MS	msarma	F, AL2	F	5G1
19	HS 2XX	HSS Elective - II (Level - II)	3	0	0	6	HSS Elective	B. Tech.	8			G1	G1	
M. Sc. (Chemistry) [First Year]														
20	CH 400	Computers and Chemistry	2	0	2	6	Compulsory	M. Sc.	2	ANP	anp	F, AL1	B	3003

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21	CH 411	Inorganic Reaction Mechanism and Organometallics	3	1	0	8	Compulsory	M. Sc.	2	CM+AKAS	cmukherjee,akshaikumar	C	G	3003
22	CH 421	Organic Reactions Mechanisms	3	1	0	8	Compulsory	M. Sc.	2	AKS+DS	asaikia, dsrimani	D	D	3003
23	CH 425	Organic Chemistry Laboratory	0	0	9	9	Compulsory, Lab	M. Sc.	2	CKJ+LMK	ckjana,lmkundu	AL3, AL4,		
24	CH 432	Chemical Dynamics and Electrochemistry	3	1	0	8	Compulsory	M. Sc.	2	AP	anumita	B	C	3003
25	CH 433	Applications of Spectroscopy	3	1	0	8	Compulsory	M. Sc.	2	GD+SC	gdas,sunanda.c	A	A	3003
M. Sc. (Chemistry) [Second Year]														
26	CH 500	Graduate Seminar	0	0	2	2	Compulsory	M. Sc.	4	JBB	juba	AL4		3003
27	CH 600	Project	0	0	18	18	Compulsory	M. Sc.	4					
	CH 612	Inorganic Clusters	3	0	0	6	Dept. Elective - I	M. Sc. + PhD	4	VM	mani	F	F	4005
28	CH 613	Applied Inorganic Chemistry	3	0	0	6	Dept. Elective - I	M. Sc. + PhD	4	KM	kingsuk	A	A	4005
29	CH 623	Supramolecular Chemistry	3	0	0	6	Dept. Elective-I	M. Sc+PhD	4	DPD	ddas	D	D	4005
30	CH 621	Modern Reagents in Organic Synthesis	3	0	0	6	Dept. Elective - I	M. Sc.	4	PKK	pavankancharla	C	C	4005
32	CH 631	Advanced Quantum Chemistry	3	0	0	6	Dept. Elective - II	M. Sc. + PhD+ Btech	4	AKG	gupta	E	E	4005
33	CH 639	Principles and Applications of Molecular Fluorescence	3	0	0	6	Dept. Elective - II	M. Sc. + PhD	4	KS	ksahu	B	B	4005
Ph. D. (Chemistry) [First Year]														
34	CH 618	Bio-inorganic Chemistry	3	0	0	6	Dept. Elective	Ph. D.	1 or 2	BM	biplab	A1	A1	5106
35	CH 627	New Reagents for Organic Synthesis	3	0	0	6	Dept. Elective	Ph. D.	1 or 2	TP	tpunni	B1	B1	5106
36	CH 629	Advances in Bio-organic Chemistry	3	0	0	6	Dept. Elective	Ph. D.	1 or 2	SSB	ssbag75	C1	C1	5106
37	CH 617	Organometallics	3	0	0	6	Dept. Elective	Ph. D.	1 or 2	AD	adas	D1	D1	5106
38	CH 625	Advances in Biological macromolecules	3	0	0	6	Dept. Elective	Ph. D.	1 or 2	DM	dmanna	E1	E1	5106